

**Hpgd, 1-269aa, Mouse, His tagged, E.coli**

**Cat.NO.: TP02493**

3th Edition

**Synonyms:**15-Hydroxyprostaglandin dehydrogenase [NAD (+)], 15-PGDH, AV026552

**Description:**Hpgd, also known as Hydroxyprostaglandin dehydrogenase, is a member of the short-chain dehydrogenases/reductases family. It metabolizes prostaglandins (PGs) to render them. Prostaglandins (PGs) play a crucial role in mediating parturition events, and their synthesis and metabolism are regulated by PGH synthase and 15-hydroxy-PG dehydrogenase (PGDH), respectively. Hpgd, a COX-2 oncogene antagonist, is a TGF-beta-induced suppressor of human gastrointestinal cancers. Recombinant mouse Hpgd protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl (pH 8.0) containing 30% glycerol

**Molecular Weight:**31.6kDa (292aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMHVNGKVALVTGAAQGIGKAF AEALLLHGAKVALVDWNLEAGVKCKAALDE  
QFEPQKTLFVQCDVADQKQLRDTFRKVVDHFGRLDILVNNAGVNNEKNWEQTLQINLVSVISGTYLGLDYMSKQN  
GGEGGIINMSSLAGLMPVAQQPVYCASKHGIIGFTRSAAMAANLMKSGVRLNVICPGFVDTPILESIEKEENMGQYI  
EYKDQIKAMMKFYGVLPSTIANGLINLIEDDALNGAIMKITASKGIHFQDYDISPLLVKAPLTS

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.